

Get Wired: Software Application Lights Up Broadband Fiber Management

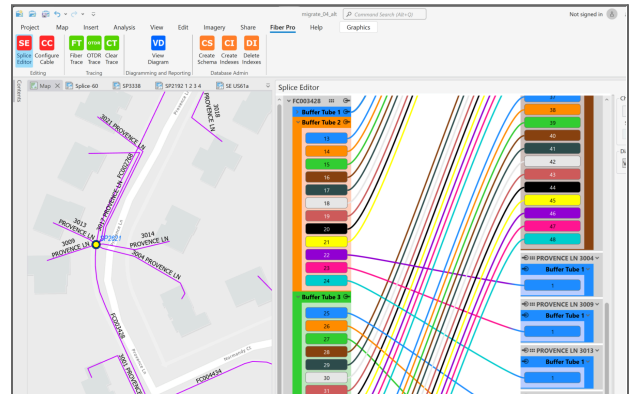
Utilities Sector Software Solution Provider

About the Client

This private company develops innovative GIS software solutions for utilities and institutions planning, constructing, and managing broadband fiber and electric utility systems.

About Eichcorp

Eichcorp is a software consulting and implementation practice based in Charlottesville, Virginia that specializes in custom software implementation, GIS/mapping applications, software project/product management, and cloud solutions. Learn more at www.eichcorp.com



The Challenge

Broadband fiber design engineers required a data-driven, digital solution to design and manage fiber optic networks. Both GIS experts and novices would benefit from a software application built on modern Esri ArcGIS software that could scale from a single-user up to an entire organization. Engineers needed to view and update splicing, extend and maintain existing networks, trace connectivity, and generate diagrams and reports to support downstream workflows.

The Outcome

As the company's Software Development Partner, Eichcorp handled all aspects of the development of a new software application, from design through implementation. This application is an ArcGIS Pro Add-In built using Microsoft .NET/C# and utilizes geodatabase data which can be accessed directly or through ArcGIS Enterprise web feature services. Eichcorp also developed workflows and automated Python scripts to migrate data into the application.

The Solution



ArcGIS Pro

Foundation for fiber network design and management



ArcGIS Pro SDK for Microsoft .NET

Toolkit for Fiber Pro software development



ArcGIS Enterprise

Provides read/write access to transactional GIS and tabular fiber network data in service oriented system architectures



ArcGIS API for Python

Automate migration of data into Fiber Pro



Microsoft SQL Server

Enterprise data storage

